Cell Biology Notesheets by C. Kohn, Waterford WI

1

Name:				Hour	Date:	
Date Assignment is due	e:		Why late?			Score: + ✓ -
_	Day of Week	Date		If	your project was late, describe why	

1. How is the flame of a candle like something that is alive?

2. How is the flame of a candle not like something that is alive?

3. What is a cell? What makes something a cell? List everything that is necessary: 4. What is necessary for something to be alive? List everything required for life:

Page through this notesheet. Then answer the questions below:

<u>Circle one</u>: I need to review my notes & practice before the quiz. Definitely - Yes - Sort of - No

Definitely - Yes - Sort of - No <u>Circle one</u>: I have never seen or heard of some of these concepts.

<u>Circle one</u>: This may be a challenging unit for me personally. Definitely - Yes - Sort of - No

<u>Circle one</u>: I may need extra strategies for some topics/vocab. Definitely - Yes - Sort of - No



$Notes\ { t C.\ Kohn, Agricultural\ Sciences\ -\ Waterford\ WI}$



Directions: Use the accompanying PowerPoint (http://bit.ly/cellbiologynotes) to complete this sheet. This is graded on a + ✓ - scale.

1.	. What four things are necessary for something to be considered alive?				
	1				
	2				
	3				
	4				
2.	What is homeostasis?				
3.	The smallest unit of matter is the				
4.	What are the three parts of the atom? List AND describe:				
	Part: Description:				
	Part: Description:				
	Part: Description:				
5.	What would happen to the charge of an atom if it lost an electron?				
6.	Opposite charges are to each other; similar charges each other				
7.	Atoms group together to form				
8.	What is an example of a molecule?				
	Draw this molecule to the right $\rightarrow \rightarrow \rightarrow$				
9.	When atoms form molecular bonds, they usually				
10.	To break apart a molecule, you				
11.	What is a macromolecule?				
12.	What is a common example of a macromolecule?				



13.	3. At the molecular level, proteins are					
14.	Cells are					
	What are cells made of?					
16.	What is an organelle?					
17.	List AND describe 5 organelles of a cell:					
	Organelle:	_Description:				
	Organelle:	_Description:				
	Organelle:	_Description:				
	Organelle:	_Description:				
	Organelle:	_Description:				
18.	What is a tissue?					
19.	What is an organ?					
20.	What is a system?					
21.	All living things require	to be				
22.	Cells need energy to		such as			
23.	What do all living cell use as their prima	ry source of energy?	What is ATP?			
2.4						
24.	ATP is sort of like a		HOW SO!			
25	List the 2 most important differences be	etween ATP and ADP				
۷.	2.35 the 2 most important unreferices be	emecii/iii dila ADI .				



26.	How is uncharged ADP recharged back into ATP?
27.	What is the "charger" that turns ADP back into ATP?
28.	What goes into ATP Synthase? What comes out of ATP Synthase?
29.	Where is ATP Synthase mostly found?Where is it also found?
30.	ATP Synthase is like a tiny What happens every time this
	"wheel" turns?
31.	What turns the 'wheel' of ATP Synthase?OH
	Where does this come from?
32.	In the image to the right, circle what powers ATP Synthase \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow
33.	After it powers the wheel, each hydrogen atom must be from the mitochondria.
34.	What would happen if hydrogen was not continuously removed from the mitochondria?
35.	What removes the used hydrogen from the mitochondria?
36.	What forms and is breathed out when oxygen binds to two hydrogen atoms?
37.	What would happen if we stopped consuming foods that are rich in hydrogen?
	Why would this happen?
38.	What would happen if our mitochondria did not have access to oxygen?
	Why would this happen?



$Unit\ Wrap\text{-}up\ {\tiny \text{C. Kohn, Agricultural Sciences - Waterford WI}}$

This page is designed to help raise your grade while enabling you to develop skills you will need for after high school. You will need to complete every question and blank in order to receive full credit for your notes. <u>Note</u>: if you cannot come up with a strategy to remember a difficult concept on your own, see your instructor for help.

1.	What is a topic or conce	pt from this unit that	you found to be more	challenging? Write	or describe below:

In the space below, create a mnemonic, rhyme, analogy, or other strategy to help you remember this particular concept:

2. What is a 2nd topic or concept from this unit that you found to be more challenging? Write or describe below:

In the space below, create a mnemonic, rhyme, analogy, or other strategy to help you remember this particular concept:

3. What is a 3rd topic or concept from this unit that you found to be more challenging? Write or describe below:

In the space below, create a mnemonic, rhyme, analogy, or other strategy to help you remember this particular concept:

4. Circle the most appropriate response. You will only be graded on whether or not you completed this section, so be entirely honest with yourself when completing this section.

<u>Circle one</u>: I used my notes <u>outside of class</u> to prepare for the quiz.

Definitely — Yes — Sort of - No

Circle one: I took extra notes in the margins for very difficult concepts. Definitely — Yes — Sort of - No

<u>Circle one</u>: I created a <u>personal</u> strategy for at least three difficult items. Definitely – Yes – Sort of - No

<u>Circle one</u>: I was very involved and actively studying during the quiz review. Definitely – Yes – Sort of - No

<u>Circle one</u>: I think I will be satisfied with the quiz grade I received this week. Definitely - Yes - Sort of - No

<u>Circle one</u>: I might need to meet with the instructor outside of class.

Definitely - Yes - Sort of - No